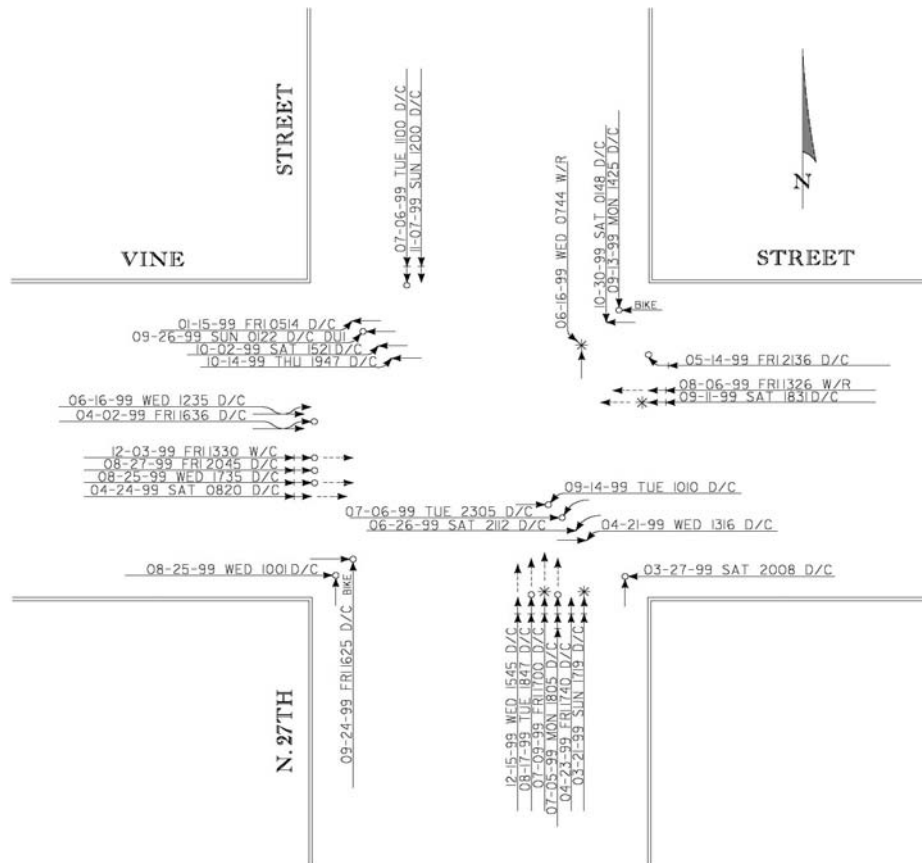


5.13 27th Street and Vine Street

BEFORE

ADT: 51,950 veh/day (1999)
Traffic Control: Actuated Coordinated Signal

Time Period: 1999
Crash Pattern: NB & EB Rear Ends
 EB & WB Left Turns



Total Crashes in Before Period: 31

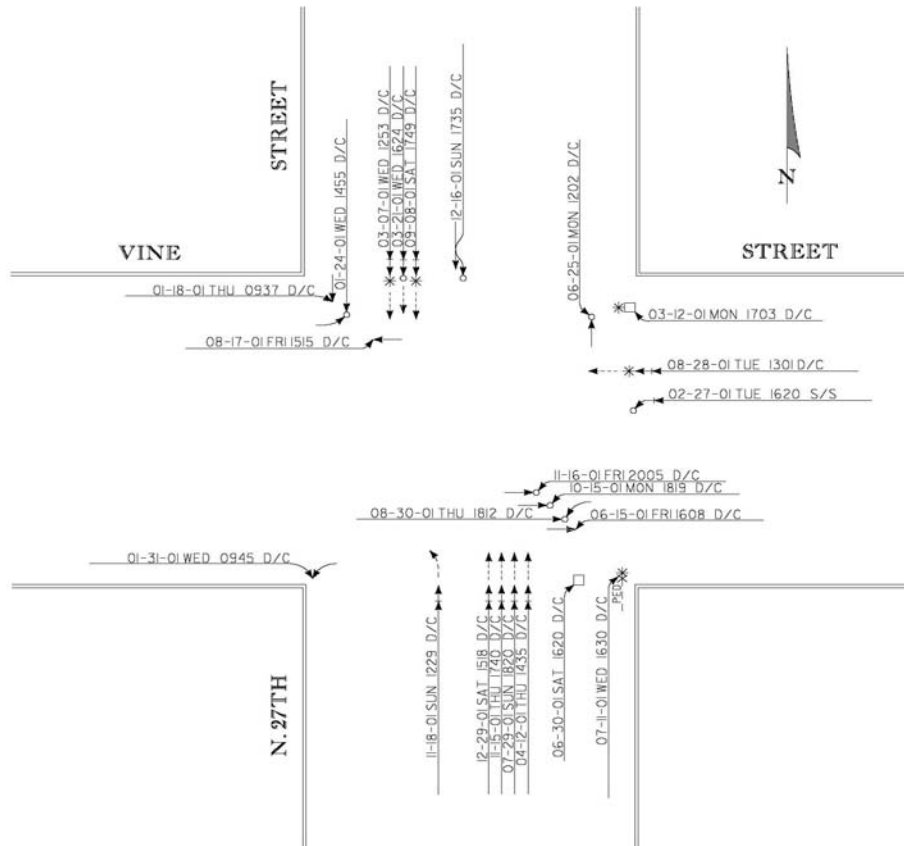
N/A

5.13 27th Street and Vine Street

AFTER

Countermeasures: Constructed SB Right Turn Lane
Improvement June, 2000
Completion Date:

Time Period: 2001
Speed Limits: NS Arterial- 35 mph
 EW Arterial- 35 mph



Total Crashes in After Period: 23



27th Street and Vine Street - Southbound Approach (After)

5.13 27th Street and Vine Street

COMPARISON

Countermeasures: Constructed SB Right Turn Lane
 Improvement Completion Date: June, 2000

	Before	After	Change
Analysis Period	1999	2001	-
Primary Crash Benefit			
Total Number of Correctable Crashes	2	3	50%
All Other Intersection Crashes	29	20	-31%
Intersection Crash Experience			
Injury + Fatal Crashes	15	8	-47%
Property Damage-Only Crashes	12	10	-17%
Non-Reportable Crashes	4	5	25%
<i>Total Number of Intersection Crashes</i>	<i>31</i>	<i>23</i>	<i>-26%</i>
Total Intersection Benefit			
Crash Rate	1.63	1.19	-27%
EPDO Rate	7.93	4.43	-44%
EPDO Number*	150.28	85.55	-64.73

Cost of Property Damage Crash: \$ 6,400
 Total Benefit (12 months): \$ 414,272
 Equivalent Uniform Annual Benefit (EUAB): \$ 531,785

Total Cost of Improvements:

Equivalent Uniform Annual Cost (EUAC): \$ 14,485
 Initial Cost: \$ 166,154

Benefit-Cost Ratio: $\frac{\$ 531,785}{\$ 14,485} = 36.7$

Net Benefit (Present Worth): \$ 531,785 - \$14,485 = \$517,300

**Change NOT Statistically Significant at 95% Confidence Interval*

This page intentionally left blank.